



CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com



To,

Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP.

01st April 2017

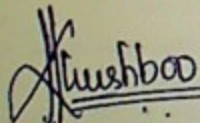
Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.'**

Please find the enclosed Test Reports of the above.

**Thanking You,
For Civil Tech Labs**


(KHUSHBOO L.)
Quality Manager



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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

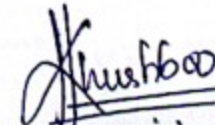
Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	01/04/2017
Specific Gravity	2.64
Water Absorption	0.31%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	97.5	95-100	
10	45.2	25-55	
4.75	8.4	0-10	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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(KHUSHBOO L.)
Quality Manager





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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	01/04/2017
Specific Gravity	2.68
Water Absorption	0.28%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	97.4	95-100	
20	53.2	30-70	
10	24.5	10-35	
4.75	4.1	0-5	

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Khushboo
(KHUSHBOO L.)
Quality Manager





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TEST REPORT TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	01/04/2017

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	51	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	488	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	01/04/2017
Specific Gravity	2.58
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	100	100	100	100	100	II	Satisfies the requirement
	4.75	97.4	90-100	90-100	90-100	95-100		
	2.36	85.2	60-95	75-100	85-100	95-100		
	1.18	75.4	30-70	55-90	75-100	90-100		
	0.6	48.5	15-34	35-59	60-79	80-100		
	0.3	25.6	5-20	8-30	12-40	15-50		
	0.15	7.4	0-10	0-10	0-10	0-15		

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	01/04/2017
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & Rebend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.5	12	Satisfactory
5	Yield Stress(N/Sq.mm)	511	500	Satisfactory
6	U T S (N/Sq.mm)	568	545	Satisfactory

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Quality Manager





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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 16 mm

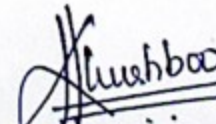
Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of testing	01/04/2017
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.6	1.58	Satisfactory
3	Bend & Rebend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.3	12	Satisfactory
5	Yield Stress(N/Sq.mm)	515	500	Satisfactory
6	U T S (N/Sq.mm)	572	545	Satisfactory

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Quality Manager





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To,

Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP.

17th April 2017

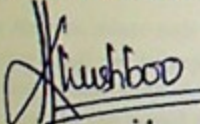
Dear Sir,

Sub: Testing of Granular Sub Base & Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Granular Sub Base & Wet Mix Macadam supplied by you, for the work of **'Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.'**

Please find the enclosed Test Reports of the above.

**Thanking You,
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Quality Manager



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TEST REPORT

GRADATION TEST ON GRANULAR SUB BASE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	14/04/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-1 for GSB Grade-2	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	Satisfies the requirement
26.5	70-100	98.4	
9.5	50-80	72.6	
4.75	40-65	55.4	
2.36	30-50	43.2	
0.425	15-25	17.8	
0.075	3-10	8.4	

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Khushboo
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Quality Manager





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TEST REPORT GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	17/04/2017
Technical Reference	MORTH Table 400-11

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	Satisfy the Requirements
45	95-100	97.5	
22.4	60-80	68.5	
11.2	40-60	44.5	
4.75	25-40	32.8	
2.36	15-30	23.8	
0.6	8-22	16.5	
0.075	0-8	6.8	

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Kushboo
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To,

Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP.

23rd April 2017

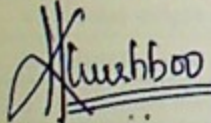
Dear Sir,

Sub: Testing of Bituminous Macadam & Bituminous Concrete.

As requested, tests on physical properties were carried out for the Bituminous Macadam & Bituminous Concrete supplied by you, for the work of **'Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.'**

Please find the enclosed Test Reports of the above.

**Thanking You,
For Civil Tech Labs**


(KHUSHBOO L.)
Quality Manager



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TEST REPORT

TEST ON THE DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS MACADAM MIX-GRADE 2

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	20/04/2017

A) SL. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	Test Method A (Centrifuge Method)	ASTM: D2172/ D2172M-11
2	Determination of amount of mineral matter/fines in the extract	Ashing Method	

B) Specification: As Per MORTH (4th Revision) Table 500-4 BM-Grade -2, Bitumen Content for BM Grade-2 is 3.3 % TO 3.5 %		
SL. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000
2	Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1919.9
3	Weight of mineral matter in the total volume of extract (by ashing), W_3 g	11.8
4	Total weight of aggregate in the bituminous mixture, W_4 g = $(W_2 + W_3)$ g	1931.7
5	Total weight of Bitumen extracted from the mixture, W_5 g = $(W_1 - W_4)$ g	68.3
6	Bitumen content in %, (W_5/W_1) %	3.42
Remarks	Satisfies the requirements.	

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(KHUSHBOO L.)
Quality Manager

